SONY®

4-590-342-**12** (1)

UHF Synthesized Transmitter

Operating Instructions

UTX-B03HR

Table of Contents

Features

The UTX-B03HR UHF Synthesized Transmitter is a body-pack transmitter equipped with an SMC9-4S connector designed for high reliability.

Reliable and proven SMC9-4S (female) interface

The unit is compatible with Sony ECM-77BC and ECM-44BC lavalier microphones, which have a proven record of reliable performance in broadcasting.

Digital companding

The built-in DSP enables digital companding for high-quality audio transmissions. Switching to compander mode allows operation in conjunction with Sony analog wireless microphone system (UWP-D series, UWP series, and WRR series) receivers.

LINE input equipped

MIC/LINE switching allows you to handle inputs from various audio equipment.

Phase switching function

The phase switching function provides support for reversed phase microphones.

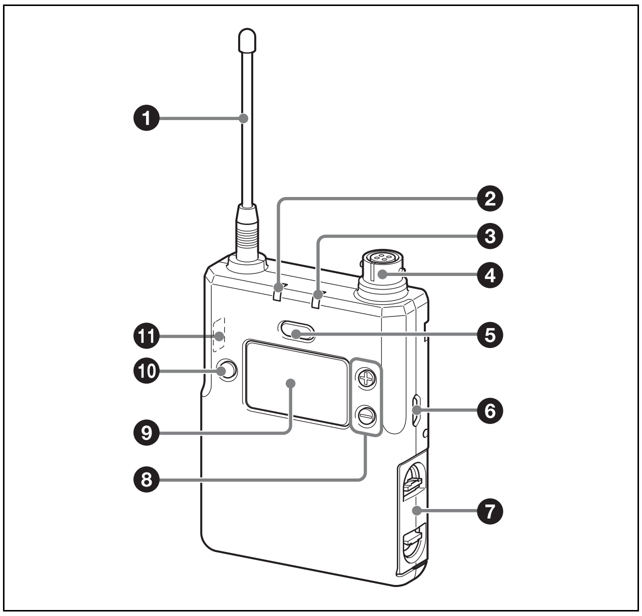
Infrared communication function

When operating in conjunction with UWP-D series receivers, the frequency and compander mode settings configured on the receiver can be received via the infrared communication function, allowing you to complete channel configurations quickly.

Flexible power supply options

The unit supports three types of batteries; alkaline, nickel metal hydride, and lithium. Power can also be supplied via USB.
When using nickel metal hydride batteries, you can charge the batteries while they are inside the unit by using a commercially available USB portable power supply.

Parts Identification



1 Antenna

2 POWER indicator

Displays the battery level and charging status.

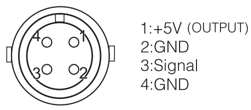
Indicator display	Status
On (green)	Sufficient battery level
Flashing (green)	Battery is getting low
On (orange)	Charging (when nickel metal hydride rechargeable batteries are inserted and power is turned off)
Off	Power is off or charging is complete

3 AUDIO (audio input level) indicator

Turns on or off according to the audio input level as follows.
On (red): Audio input level is too high. If the sound is distorted, adjust the attenuation level to decrease the audio input level *(page 11)*.
On (green): Audio input level is appropriate.
Off: There is no audio input or the input level is too low.
Flashing (orange): Audio is muted (i.e., disabled).

4 Audio input connector (SMC9-4S type (female))

Connect to Sony ECM-77BC and ECM-44BC lavalier microphones. You can also connect other microphone types by using EC-1.5CF microphone cable (not supplied).



Note

When the audio input level is set to MIC, a voltage for the lavalier microphone power supply is applied to the audio input connector. When connecting equipment other than lavalier microphones, always use an EC-1.5CF microphone cable (not supplied).

❺ POWER/MUTING button

Turns the power on/off. You also use this button to turn the muting function on/off.

Function	Operation
Supply ON	Press button for 1 second or longer
Supply OFF	Press button until the indicator turns off
Muting ON	Press button
Muting OFF	

❻ USB connector (Micro B type)

Connect to a commercially available USB portable power supply.
When a USB portable power supply is connected while the power is turned on, the unit automatically operates with power supplied by the USB portable power supply.
When a USB portable power supply is connected while nickel metal hydride batteries are inserted and the power is turned off, the batteries are charged by the USB portable power supply.

Note

Alkaline batteries and lithium batteries cannot be recharged.

❼ Battery compartment

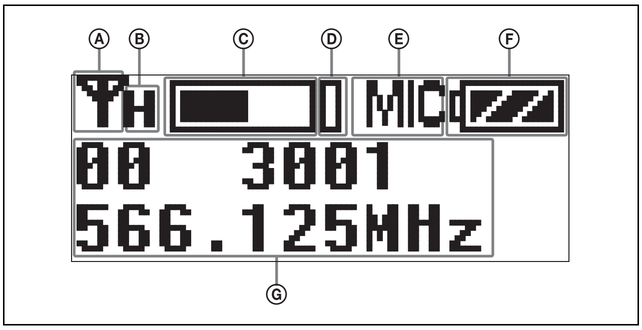
Accepts two AA batteries (alkaline, nickel metal hydride, or lithium batteries).

For details on how to insert batteries, see "Power Supply" (page 5).

❽ + or – button

Selects functions or values shown on the display.

❾ Display section



Ⓐ RF transmission indicator

Displays the current transmission status.

: Transmitting

– : Transmission stopped

Ⓑ RF transmission power indicator

Indicates the current transmission power setting. You can change the setting with the RF transmission power setting function.

For details on the RF transmission power setting function, see "Setting the transmit output level (RF POWER)" (page 11).

Ⓒ Audio input level meter

Displays the audio input level.

Ⓓ Peak indicator

Lights up when the signal is 3 dB below the level at which distortion begins as a warning of excessive input level.

Ⓔ Input level indicator

Displays the input level status.
MIC: Microphone input
LINE: Line input

Ⓕ Battery level indicator

Displays the battery level. Displays "EXT" when power is supplied from the USB connector.

For details, see "Battery level indicator" (page 6).

Ⓖ Menu display section

Displays various functions. Press the + or – button to switch functions.

For details, see "Configuration Menu" (page 11).

❿ SET button

Adjusts displayed function settings and applies the displayed value.
Holding down the SET button while turning on the power turns the transmitter on without transmitting a signal (transmission stopped mode).

⓫ Infrared detector

Receives the frequency and compander mode set on the receiver.

Power Supply

The unit operates using power supplied from two AA batteries (alkaline, nickel metal hydride, or lithium batteries) or from a supply connected to the USB connector. If power is supplied simultaneously from batteries and from a supply connected to the USB connector, power from the USB connector has precedence. For details about inserting batteries and displaying the battery level, or supplying power from a supply connected to the USB connector, see the following sections.

Note

The use of manganese batteries will result in poor performance. Do not use manganese batteries.

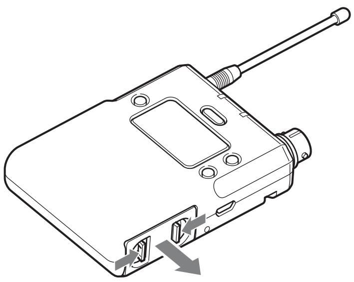
Inserting the Batteries

Notes

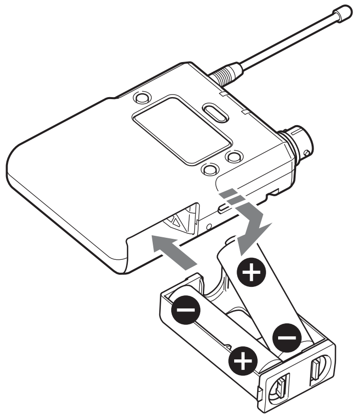
- Always use sets of the same type of battery. Do not use batteries of different types or batteries with different charge level together.
- Replacing the batteries during operation may generate a large noise. Be sure to turn off the unit before replacing the batteries.

1 Press and hold the POWER/MUTING button to turn the power off.

2 Slide the two catches inward (as indicated) and pull the battery compartment out.



3 Insert two new AA batteries into the battery compartment with ⊕ and ⊖ polarities in the correct orientation, and close the compartment.



Make sure that the battery compartment is locked securely.

Battery level indicator

Press and hold the POWER button for 1 second or longer to display the battery level on the display.
Immediately replace both batteries with new batteries if the indicator starts flashing (indication 5 below). If using new alkaline batteries, use after checking the recommended time limits.

	Battery level indicator	Battery status
1	Lights	Good
2	Lights	Less than 70% charge remaining
3	Lights	Less than 40% charge remaining
4	Lights	Less than 20% charge remaining
5	Flashes	Almost empty

Notes

- When BATTERY is set to TYPE1, the battery level is indicated based on the use of new LR6 (size AA) Sony alkaline batteries. The battery level may not be displayed correctly when different kinds of batteries, different brand of batteries, or old batteries are used. If using batteries other than size AA alkaline batteries, select the battery type using the BATTERY function.
- If you plan to use the transmitter continuously for a long period of time, it is recommended that you replace the batteries with brand new ones.

For details on the BATTERY function setting, see “Setting the battery type (BATTERY)” (page 12).

Battery precautions

Batteries may leak or explode if mistreated. Be sure to follow these instructions.

- Insert batteries in the correct ⊕ and ⊖ polarity orientation.
- Always replace the two batteries together with new ones.
- Do not use different types of batteries or old and new ones together.
- Dry cells are not rechargeable.
- When not using the device for a long period of time, remove the batteries. If the batteries leak for any reason, contact your Sony service representative.

Supplying Power from a USB Connector

The unit can operate from a commercially available USB-output type AC adapter or portable power supply connected to the USB connector.
When supplying power using a USB-output type AC adapter or portable power supply, use a unit that satisfies the following conditions.

- Output connector: USB micro B type
- Rated voltage: 5 V
- Output current: 200 mA or higher

Displays “EXT” when power is supplied from the USB connector.

Note

Noise may occur in the audio depending on the AC adapter or portable power supply that is connected. In such cases, you can reduce the noise by distancing the unit or lavalier microphone from the AC adapter or portable power supply or otherwise altering their positions.

Charging Nickel Metal Hydride Batteries

You can charge nickel metal hydride batteries inserted in the unit.
When charging nickel metal hydride batteries, turn the power off and connect a commercially available USB-output type AC adapter or portable power supply to the USB connector.
The POWER indicator is lit orange while charging batteries. When charging is finished, the POWER indicator goes off.
When charging batteries using a USB-output type AC adapter or portable power supply, use a unit that satisfies the following conditions.

- Output connector: USB micro B type
- Rated voltage: 5 V

• Output current: 1 A or higher

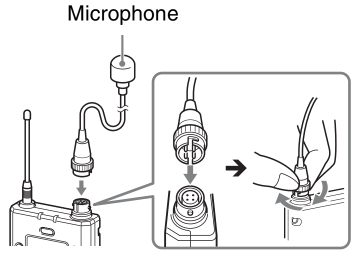
Notes

- Charging may not be supported, depending on the connected AC adapter, portable power supply, or computer port.
- Nickel metal hydride batteries are not charged while the transmitter or receiver is turned on.

Preparation

Connecting a Lavalier Microphone

Connect a Sony ECM-77BC or ECM-44BC lavalier microphone to the unit.

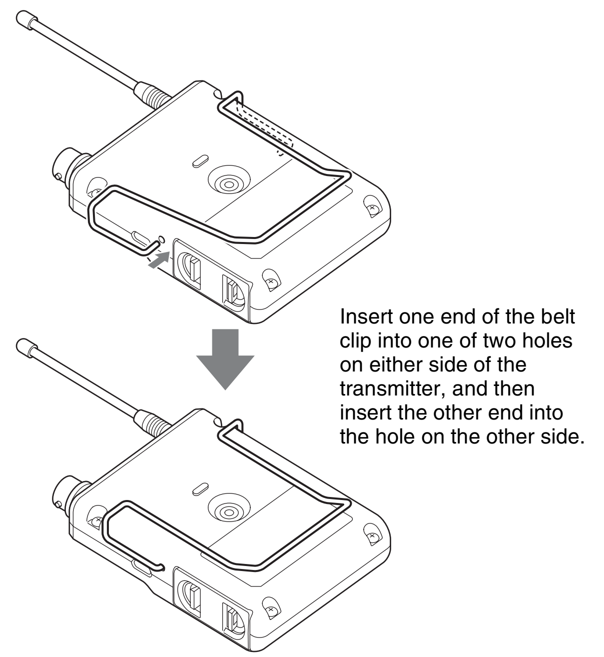


For a secure connection, turn to lock the connector.

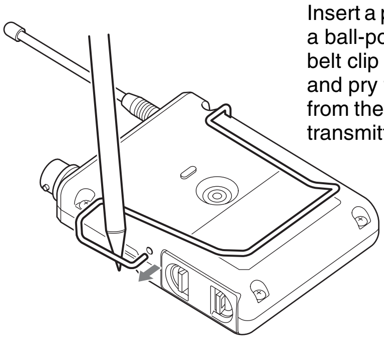
Note

Be sure to attach or remove the microphone after turning off the transmitter.

Attaching a Belt Clip



To remove a belt clip



Insert a pointed object, such as a ball-point pen, between the belt clip and the transmitter, and pry the end of the belt clip from the hole on the side of the transmitter.

Settings

Setting the Transmit Channel

For details about the channel groups and channels that can be selected, refer to the “Frequency List” on the CD-ROM.

Note

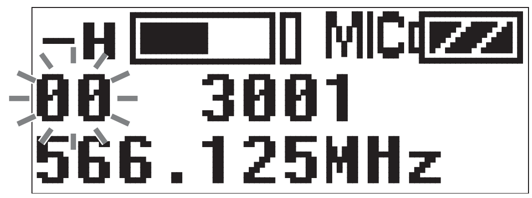
To prevent interference and noise, beware of the following.
- Do not use multiple transmitters that have been set to the same channel at the same time.
- When using two or more channels at the same time, always configure different channels within the same group.
- Keep all transmitters and receivers at least 3 m away from each other.

1 Press and hold the SET button and press the POWER/MUTING button to turn the power on.

2 Use the + or – button to display the GP/CH menu.

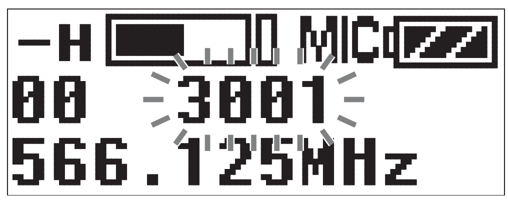
3 Press and hold the SET button for 1 second or longer.

Press and hold until the channel group display starts flashing.



4 Use the + or – button to select the desired group name, then press the SET button.

The channel group is set, and the channel number display starts flashing.



5 Use the + or – button to select the desired channel number, then press the SET button.

The displays stops flashing and the desired channel is set.

6 Press and hold the POWER/MUTING button to turn the power off, then press and hold the POWER/MUTING button again to turn the power on.

Signal transmission starts.

Notes

- If there is no user input within 10 seconds after the channel group display or channel number display starts flashing, the displayed setting that is flashing is saved. The same applies when setting other parameters.
- The frequency indicator changes in response to the channel number.
- Do not remove the batteries while making settings. If they are removed, re-insert them and repeat the procedure from the beginning.
- Make sure that the same channel is set on transmitters and receivers within the same system.

Setting the Compander Mode

Depending on the receiver being used in conjunction with the unit, changing the compander mode may be necessary.

Notes

- When operating in conjunction with UWP-D series receivers, set the receivers to the same compander mode.
- No audio will be output if the tone signal frequency is different due to inconsistencies in compander mode settings configured on the devices being used together.
- The compander mode can be configured when the menu display is set to extended mode *(page 10)*.

1 Use the + or – button to display the COMPANDER menu.

2 Press and hold the SET button for 1 second or longer.

The selected item starts flashing.

3 Use the + or – button to select the compander mode, then press the SET button.

The selected compander mode is configured.
UWP-D: Select this when operating in conjunction with Sony UWP-D series receivers.
UWP: Select this when operating in conjunction with Sony UWP series receivers.
WL800: Select this when operating in conjunction with Sony WRR series receivers.

Receiver and compander mode combinations

Configure the appropriate compander mode based on the receivers being used.

Note

Audio will not be output if the combination of receivers and compander mode settings are not correct.

Receiver		Compander mode on unit		
		UWP-D	UWP	WL800
UWP-D series (URX-P03, URX-S03D)	Compander mode: UWP-D	Yes	No	No
	Compander mode: UWP	No	Yes	No
	Compander mode: WL800	No	No	Yes
UWP series (URX-P2, URX-M2)		No	Yes	No
WRR series (WRR-855S, WRR-862, etc.)		No	No	Yes

Using the Infrared Communication Function

When operating in conjunction with UWP-D series receivers, the frequency and compander mode settings configured on the receiver can be sent and applied to the unit using the infrared communication function.

Note

This function cannot be used when operating in conjunction with UWP or WRT series transmitters.

For details on the infrared communication function, refer to the operating instructions supplied with the UWP-D series receiver.

Menu Displays and Detailed Settings

Menu Structure and Operation

There are three menu display modes that can be selected according to the application.

Simple mode

This mode displays only the required settings for transmitting audio.
You can enable simple mode by setting MENU MODE (menu display mode) to SIMPLE.

Configuration menus

- GP/CH (group/channel) select
- BAND (frequency band) select (Not available on Japanese and Korean models)
- RF POWER (RF transmit output level) select
- ATT (attenuator) setting
- LCF (low-cut filter) setting
- IN LEVEL (audio input level) select
- TIME (accumulated running time) display
- MENU MODE (menu display mode) setting

Note

The following configuration menus cannot be modified during transmission. Set these menus in transmission stopped mode.
- GP/CH (group/channel) select

The following configuration menus do not appear and cannot be modified during transmission. Set these menus in transmission stopped mode.
- BAND (frequency band) select (Not available on Japanese and Korean models)
- RF POWER (RF transmit output level) select

Extended mode

This mode displays all configuration menus.
You can enable extended mode by setting MENU MODE (menu display mode) to ADVANCED.

Note

The existing settings configured in extended mode are active even when using simple mode.

Configuration menus

- GP/CH (group/channel) select
- BAND (frequency band) select (Not available on Japanese and Korean models)
- RF POWER (RF transmit output level) select
- ATT (attenuator) setting
- LCF (low-cut filter) setting
- IN LEVEL (audio input level) select
- TIME (accumulated running time) display
- MENU MODE (menu display mode) setting
- COMPANDER (compander mode) setting
- PWR LOCK (POWER button lock) function
- MUTING (muting function) setting
- PHASE (phase switching) setting
- BATTERY (battery type) setting
- CONTRAST (display text contrast) setting
- RESET (factory default setting) function
- VERSION (software version) display

Note

The following configuration menus cannot be modified during transmission. Set these menus in transmission stopped mode.
- GP/CH (group/channel) select

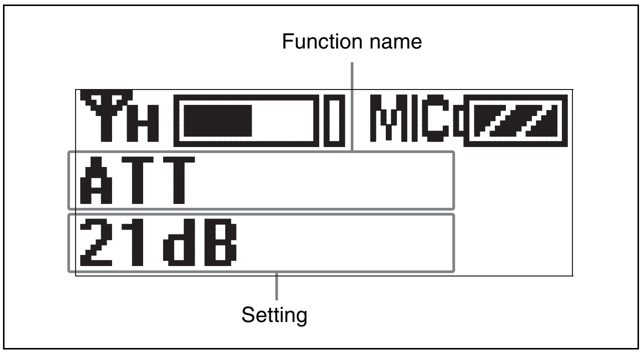
The following configuration menus do not appear and cannot be modified during transmission. Set these menus in transmission stopped mode.
- BAND (frequency band) select (Not available on Japanese and Korean models)
- RF POWER (RF transmit output level) select
- RESET (factory default setting) function

Transmission stopped mode

This mode allows settings to be modified when RF transmission has stopped.
Use this mode to make settings without risk of interrupting other wireless traffic when setting channels and other settings.
With the power off, press and hold the SET button and press the POWER/MUTING button for at least 1 second to turn the power on and to display the transmission stopped mode menu.
The following configuration menus can only be modified in transmission stopped mode.
- GP/CH (group/channel) select
- BAND (frequency band) select (Not available on Japanese and Korean models)
- RF POWER (RF transmit output level) select
- RESET (factory default setting) function

Basic menu operation

The basic menu operation is the same in simple mode, extended mode, and transmission stopped mode.



1 Press the + or – button to display the function to be set.

2 Press and hold the SET button until the setting starts flashing.

3 Press the + or – button to change the setting.

4 Press the SET button to apply the setting.

Note

If no operation is performed for 5 seconds, the backlight will turn off. Pressing any button will turn the backlight on again.

Configuration Menu

This section describes each function and configurable items.
Underlined entries indicate factory default settings.

Selecting group/channel (GP/CH)

The factory default setting varies depending on the model.

For details, see "Setting the Transmit Channel" (page 8).

Note

This function can be modified in transmission stopped mode only.

Selecting the frequency band (BAND)

Select the transmit frequency band.

Notes

- This function can be modified in transmission stopped mode only.
- This menu is not available on Japanese and Korean models. On these models, the frequency band cannot be selected.

For details about the groups and channels in each frequency band, refer to the "Frequency List" on the CD-ROM.

Setting the transmit output level (RF POWER)

Set the transmitted RF power to HIGH or LOW. The transmit power level varies depending on the model.

Note

This function can be modified in transmission stopped mode only.

Adjusting the audio input attenuation level (ATT)

Set the audio input attenuation level in 3 dB increments to reduce noise distortion.
The factory default setting is 9 dB.

Notes

- "---" is displayed if IN LEVEL is set to LINE, and the attenuation level cannot be modified (fixed at 0 dB).
- If the attenuation level is set too high, the noise level may increase. Set the level as close as possible to 0 dB if using a lavalier microphone attached to your torso.

Setting the low-cut filter (LCF)

Set the low-cut filter to reduce noise caused by wind.
You can set the cutoff frequency to OFF/LOW/MID/HIGH.
<u>OFF</u>: No filtering
LOW: 100 Hz cutoff frequency
MID: 150 Hz cutoff frequency
HIGH: 200 Hz cutoff frequency

Switching the audio input level (IN LEVEL)

Set the input level according to the audio input device. You can switch between MIC and LINE. The factory default setting is MIC.

Note

Do not switch this function to "MIC" when the audio input source is an audio mixer or other line level device. If an excessive audio level is input, it may cause noise distortion or damage the playback/recording equipment.

Displaying the accumulated running time (TIME)

Display the accumulated running time of the transmitter as a guide to total usage time.
The factory default setting is 00:00. Up to 99:99 can be displayed.

To reset the time display

1 Press and hold the SET button until the time display starts flashing.

2 Press the – button to display "00:00 CLR" and press the SET button.

Pressing the + button when "00:00 CLR" is displayed causes the time display to start flashing. You can press the SET button in this state to cancel the reset of the accumulated running time.

Setting the menu display mode (MENU MODE)

Set the menu display mode.
<u>SIMPLE</u>: Displays only the required settings.

ADVANCED: Displays all settings.

Setting the compander mode (COMPANDER)

Set the operating mode of the compander.
UWP-D: High speech quality mode supported in combination with UWP-D series devices.
UWP: Mode supported in combination with Sony UWP-series receivers.
WL800: Mode supported in combination with Sony 800-series receivers.

Notes

- This function is displayed in extended mode only.
- No audio is output if the tone signal frequency is different due to the use of a combination of devices with different compander mode settings.

Locking the POWER/MUTING button (PWR LOCK)

Lock the POWER/MUTING button to prevent the power being turned off inadvertently during transmission.
UNLOCK: Press and hold the POWER/MUTING button to turn the power on/off.
LOCK: The power does not turn off, even after pressing the POWER/MUTING button.

To release the lock state

To release the lock state, either set the PWR LOCK menu to UNLOCK or use the following procedure.

1 When the button is in the LOCK state, press and hold the POWER/MUTING button.

A prompt appears asking you whether to release the lock state.

2 Use the + or – button to select YES, then press the SET button.

The lock state is released.

Notes

- This function is displayed in extended mode only.
- The POWER/MUTING button lock state does not change after switching to simple mode after setting the button to LOCK in extended mode.
- If the batteries are removed and reinserted while the POWER/MUTING button is set to LOCK, the power will turn on automatically but the lock state of the POWER/MUTING button does not change.

Muting the output (MUTING)

Pressing the POWER/MUTING button while transmitting mutes the audio so that audio from the receiver is not output.
Pressing the POWER/MUTING button again restores the audio output.
ENABLE: Pressing the POWER/MUTING button mutes the output.
DISABLE: The output is not muted even when the POWER/MUTING button is pressed.

Notes

- This function is displayed in extended mode only.
- In muting, the audio signal is not output but an RF signal is still transmitted.

Switching the phase of the microphone (PHASE)

Depending on the model of the connected microphone, change the phase setting.
NORMAL: Phase is not reversed.
INVERT: Reverses the phase within the transmitter. Set to INVERT when an EC-1.5CF is connected.

Note

This function is displayed in extended mode only.

Setting the battery type (BATTERY)

Set the type of battery being used in order to provide a more accurate battery level indication.

TYPE1: Recommended setting when using alkaline LR6 (size AA) batteries. Indicates the battery level based on the characteristics of new Sony alkaline LR6 (size AA) batteries.
TYPE2: Recommended setting when using rechargeable nickel metal hydride batteries.
TYPE3: Recommended setting when using lithium batteries.

Notes

- This function is displayed in extended mode only.
- The characteristics of batteries change according to battery type and environmental conditions. It is recommended that you understand the characteristics of batteries before using them.

Setting the display contrast (CONTRAST)

Adjust the contrast of text and icons on the display in the range 1 to 10.
The configurable values are given below.
(Light) **1 2 3 4 5 6 7 8 9 10** (Dark)

Note

This function is displayed in extended mode only.

Restoring factory default settings (RESET)

Restore all parameters to their factory default settings. Press and hold the SET button. A prompt appears asking you whether to restore factory default settings. Press the

+ or – button to select YES, then press the SET button. The transmitter parameters are restored to their factory default settings.

Notes

- This function can be used in transmission stopped mode only.
- After a reset, the audio input level is also restored to its factory default setting. Note that this may cause the volume on devices connected to the receiver and in headphones to suddenly change.

Displaying the software version (VERSION)

Display the software version of the transmitter.

Note

This function is displayed in extended mode only.

Error Messages

When a problem occurs, one of the following error messages may appear on the display.

Message	Meaning	Solution
EEP ERROR	An error has occurred in the backup memory data.	Contact your Sony service representative.
PLL ERROR	An error occurred in the PLL synthesizer circuit.	Restart the unit. If the message persists, contact your Sony service representative.

Troubleshooting

If you have any problem, use the following checklist before asking for repairs. If the problem persists, contact your Sony service representative.

Symptom	Cause	Solution
The unit does not turn on.	The ⊕ and ⊖ polarity orientation of the batteries is incorrect.	Insert the batteries with the correct polarity orientation.
	The batteries are getting low.	Replace the batteries with new ones.
	The battery terminals are dirty.	Clean the ⊕ and ⊖ terminals with a cotton swab.
The unit does not turn off.	The POWER/MUTING button is locked.	Release the locked status in the PWR LOCK menu.
The batteries become drained quickly.	The batteries are getting low.	Replace the batteries with new ones.
	Manganese batteries are being used.	Use alkaline batteries. The battery life of a manganese battery is less than half that of an alkaline battery.
	The device is being used under cold conditions.	The batteries drain quickly under cold conditions.
The channel cannot be changed.	The unit is not in transmission stopped mode.	Turn off the unit, and then turn it on again while holding down the SET button to switch to transmission stopped mode.
There is no sound.	The channel setting on the transmitter is different from that on the receiver.	Use the same channel setting on both the transmitter and receiver.
	The transmitter is not transmitting signals, or the transmission output is weak.	Confirm that the transmitter is turned on. Alternatively, reduce the distance between the transmitter and receiver.
	The transmitter is set to line level input.	Switch to microphone input.
	The compander mode setting on the transmitter is different from that on the receiver.	Use the same compander mode setting on both the transmitter and receiver.
	The transmitter is muted.	Press the POWER/MUTING button on the transmitter to release the muted state.
The sound is weak.	The attenuation level on the transmitter is too high.	The input level of the transmitter is low. Set the attenuation of the transmitter to an appropriate level.
	The volume on the amplifier or mixer is low.	Adjust the volume to an appropriate level.
	The transmitter is set to line level input.	Switch to microphone input.
	The compander mode setting on the transmitter is different from that on the receiver.	Use the same compander mode setting on both the transmitter and receiver.
The sound is distorted.	The attenuation level on the transmitter is too low or is set to 0.	The input level is extremely high. Set the attenuation on the transmitter so that the audio is not distorted.
	The channel setting on the transmitter is different from that on the receiver.	Use the same channel setting on both the transmitter and receiver.
	The compander mode setting on the transmitter is different from that on the receiver.	Use the same compander mode setting on both the transmitter and receiver.
There is sound interruption or noise.	The channel setting on the transmitter is different from that on the receiver.	Use the same channel setting on both the transmitter and receiver.
	Two or more transmitters are set to the same channel.	Two or more transmitters cannot be used on the same channel. Refer to the frequency list stored on the supplied CD-ROM, and reconfigure the channel on each transmitter.
	The transmitters are not set to the channels within the same channel group.	The channel plan is set so that no signal interference occurs when two or more transmitters are used simultaneously. Set each transmitter to a different channel within the same channel group.
	Adjacent channels are being used.	Use the channels separated by at least two channels (250 kHz).

Symptom	Cause	Solution
The transmitter channel cannot be set with infrared transmission.	The infrared receptor on the transmitter is too far from the infrared transmission port on the receiver.	Reduce the distance between the infrared receptor on the transmitter and the infrared transmission port on the receiver to within about 20 cm (8 in.).
	Interference from infrared communications between other devices or from direct sunlight is present.	The transmitting distance is reduced when interference from strong sunlight, for example, is present. Place the transmitter and receiver as close to each other as possible.

Important Notes on Use

Usage and Storage

- Operating the UWP-D series devices near electrical equipment (motors, transformers, or dimmers) may cause interference due to electromagnetic induction. Keep the devices as far from such equipment as possible.
- The presence of lighting equipment may produce electrical interference over a wide frequency range. In this case, interference may fluctuate with the position of the receiver antenna and position of the transmitter. Position the devices so that interference is minimized.
- To avoid degradation of the signal to noise ratio, do not use UWP-D devices in noisy places or in locations subject to vibration, such as the following:
  – Near electrical equipment, such as motors, transformers, or dimmers
  – Near air conditioning equipment or places subject to direct air flow from an air conditioner
  – Near PA (public address) loudspeakers
  – Near equipment that might knock against the receiver
  Keep devices as far from such equipment as possible or use buffering material.

Cleaning

Clean the surface and the connectors of devices with a dry, soft cloth. Never use thinners, benzene, alcohol, or any other chemicals, since these may mar the finish.

To prevent electromagnetic interference
Some channels may be unable to be used due to noise generated due to the effects of external noise and/or radio interference. In this case, it is recommended to stop transmitting (turn the power off) or change to another frequency (change channel).

To prevent electromagnetic interference from portable communication devices
The use of portable telephones and other communication devices near the devices may result in malfunction and interference with audio signals. It is recommended that portable communication equipment near the devices be turned off.

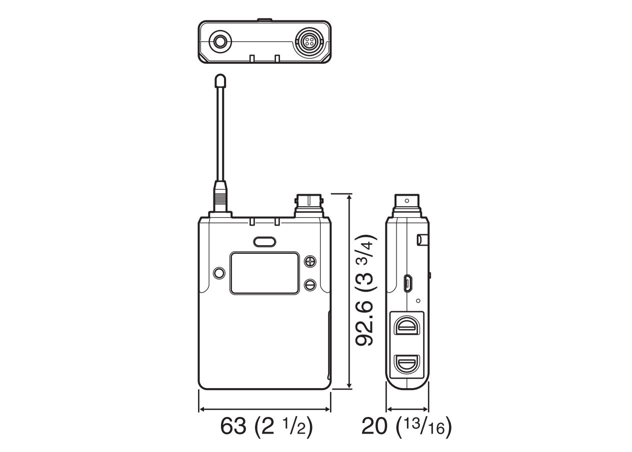
Specifications

Antenna 1/4 λ wavelength wire antenna
Audio input connector
SMC9-4S (female)
Reference audio input level
–60 dBV (MIC input, 0 dB attenuation)
Frequency response
40 Hz to 18 kHz
Attenuation 0 dB to 27 dB (3 dB steps)
Indicators AUDIO, POWER/MUTING
Oscillator type Crystal-controlled PLL synthesizer
Carrier frequencies
Models available in USA:
470 MHz to 542 MHz (UC14 model),
536 MHz to 608 MHz (UC25 model),
566 MHz to 608 MHz and
614 MHz to 638 MHz (UC30 model),
638 MHz to 698 MHz (UC42 model)
Models available in Europe:
470 MHz to 542 MHz (CE21 model),
566 MHz to 630 MHz (CE33 model),
638 MHz to 694 MHz (CE42 model)
Model available in China:
710 MHz to 782 MHz (CN38 model)
Model available in Korea:
925 MHz to 937.5 MHz (KR Model)
Model available in Thailand:
794 MHz to 806 MHz (E model)
RF output level 30 mW/5 mW selectable (for model available in USA, Europe, and China)
10 mW/2 mW selectable (for model available in Thailand and Korea)
Preemphasis 50 µs
Reference deviation
±5 kHz (–60 dBV, 1 kHz input)
Distortion 0.9% or less (–60 dBV, 1 kHz input)
Signal-to-noise-ratio
60 dB or more
Voice delay 0.35 ms
Tone signal frequency
In UWP-D compander mode:
32.382 kHz
In UWP compander mode: 32 kHz
In WL800 compander mode:
32.768 kHz
Supply voltage 3.0 V DC (two LR6/AA size alkaline batteries)
5.0 V DC (supplied from USB connector)
Battery life (measured with two Sony LR6/AA size alkaline batteries at 25 °C (77 °F))
Approx. 8 hours with output power of 30 mW (for model available in USA, Europe, and China)
Approx. 10 hours with output power of 10 mW (for model available in Thailand and Korea)

Operating temperature
0 °C to 50 °C (32 °F to 122 °F)
0 °C to 35 °C (32 °F to 95 °F) when charging

Storage temperature
–20 °C to +55 °C (–4 °F to +131 °F)

Dimensions



63 × 92.6 × 20 mm (2 $^{1}/_{2}$ × 3 $^{3}/_{4}$ × $^{13}/_{16}$ in.) (width / height / depth) (excluding antenna)

Mass
Approx. 105 g (3.7 oz.) (excluding batteries)

Supplied accessories
Belt clip (1)
Battery case (1) (Chinese model only)
Before Use (1)
CD-ROM (1)
Warranty card (1)

Design and specifications are subject to change without notice.

Notes

- Always verify that the unit is operating properly before use. SONY WILL NOT BE LIABLE FOR DAMAGES OF ANY KIND INCLUDING, BUT NOT LIMITED TO, COMPENSATION OR REIMBURSEMENT ON ACCOUNT OF THE LOSS OF PRESENT OR PROSPECTIVE PROFITS DUE TO FAILURE OF THIS UNIT, EITHER DURING THE WARRANTY PERIOD OR AFTER EXPIRATION OF THE WARRANTY, OR FOR ANY OTHER REASON WHATSOEVER.
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